MBNMS Permit Report
October 3, 2008

MBNMS-2008-024

Effective Date: 12/05/2008 **Expiration Date:** 12/05/2013

Project Title: Waste Discharge Requirements NPDES General Permit for Discharges from Aquaculture Facilities and Aquariums

Applicant Name: RWQCB

Affiliation: Central Coast Region

Project Summary:

This Order (General Permit) is intended to authorize and regulate similar discharges from aquaculture facilities and aquariums (facilities that contain, grow, hold, or study aquatic species) to ocean waters of the State within the Central Coast Region. There are currently five dischargers authorized by the General Permit, including two research facilities and three commercial aquaculture facilities.

Facilities authorized by the General Permit may discharge a variety of pollutants attributed to: (1) feeds, directly or indirectly (feces), (2) residuals of drugs used for maintenance of animal health, and (3) residuals of chemicals used for cleaning equipment or for maintaining or enhancing water quality conditions. Such pollutants can contribute solids and nutrients to receiving waters; and chemical and drug residuals raise concerns regarding toxicity of the discharges and the promotion of resistance to antibiotics.

Location Description - Proposed:

Coordinates:

Latest Event:

08/14/2008 Additional information received

MBNMS-2008-023

Effective Date: 02/01/2009 **Expiration Date:** 05/31/2009

Project Title: Collaborative Research: The Internal Tide and Mixing in Monterey and Ascension Canyons

Applicant Name: Dr. John Mickett

Affiliation: Applied Physics Laboratory, University of Washington

Project Summary: Applicant plans to deploy a total of 8 moorings, with 6 in MC and 2 in AC. There will be three different types of moorings:

1) Profiling moorings (3) that are instrumented with the McLane Moored Profiler---with two in MC and one in AC. They will be deployed in 500-700 m of water and will extend from the bottom to roughly 20 m below the surface (Fig. 1, left).

2) Long-Ranger ADCP moorings (4). These are "short" moorings instrumented with an RD-Teledyne 75 kHz "Long Ranger" ADCP installed looking upward in the float (Fig. 2, right). They will extend from the bottom to roughly 20 m above the bottom. Three will be placed in MC and one in AC.

3) Bottom Lander ADCP (1). A 300 kHz "Sentinel" ADCP will be installed in a Flotation Technology trawl resistant lander-extending about 1 m above the bottom (Fig. 2). All parts of this mooring will be recovered.

Location Description - Proposed:

Monterey and Ascension Canyons

Coordinates:

1 Moored Profiler MC 36.785° N 121.928° W 650 m
2 Long Ranger ADCP MC 36.773° N 121.901° W 570 m
3 Moored Profiler MC 36.795° N 121.903° W 510 m
4 Long Ranger ADCP MC 36.792° N 121.792° W 420 m
5 Long Ranger ADCP MC 36.795° N 121.849° W 305 m
6 Bottom Lander ADCP MC 36.767° N 121.891° W 220 m
7 Moored Profiler AC 36.967° N 122.448° W 700 m
8 Long Ranger ADCP AC 37.010° N 122.426° W 300 m

Latest Event:

10/01/2008 Additional information requested

MBNMS-2008-022 - Active

Effective Date: 09/01/2008 **Expiration Date:** 10/01/2012

Project Title: North Coast Ocean Rescue, Pier to Point Paddle and Ocean Race - Cambria

Applicant Name: Mr. Benjamin Boer

Affiliation: Cambria Fire Dept. North Coast Ocean Rescue

Project Summary:

This project is a fund raiser for the North Coast Ocean Rescue Team. They hope to raise funds to purchase radio gear and assorted hardware. Approximately 100 paddlers will pay $35.00 to enjoy a

'fun' paddle which will highlight our ocean and bring awareness of using the ocean and respect it.
Also, proper awareness to safety issues, when using the ocean, will be addressed.
The anchors attached to the three buoys will be hand, over hand, delivered to the ocean floor.

Location Description - Proposed:

Waters approx. 500 ft off the San Simeon Pier, along the shore, heading South, ending at Leffingwell Landing.

Coordinates:

Latest Event:
08/20/2008 Permit issued

MBNMS-2008-021 - Active

Effective Date: 09/01/2008 **Expiration Date:** 08/31/2010

Project Title: Breakage by fatigue in seaweeds

Applicant Name: Ms. Katherine Mach

Affiliation: Hopkins Marine Station of Stanford University

Project Summary:
The proposed research is trying to elucidate population dynamics in seaweeds by studying the mechanics of breakage. This research will provide a mechanistic and predictive understanding of seaweed breakage and death. These models will allow prediction of seaweed population dynamics in the future, as the ocean currents and waves change with global warming.

Location Description - Proposed:

Intertidal zone at Hopkins Marine Station.

Coordinates:

Central Point
36.621714 N
121.905758 W

Latest Event:
08/14/2008 Permit issued

MBNMS-2008-020 - Active

Effective Date: 09/01/2008 **Expiration Date:** 09/30/2010

Project Title: Sediment, nutrients, and contaminants from a small fluvial system to the nearshore environment, Monterey Bay, CA

Applicant Name: Dr. Curt Storlazzi

Affiliation: U.S. Geological Survey

Project Summary:

The goal of this work is to evaluate biogeochemical aspects of sediment delivery to the shoreline and its dispersal in coastal ocean in an anthropogenically-impacted area, and in doing so address the specific science strategy goals of the USGS.

The proposed research will characterize the nearshore ecological impact of iron and particulate-associated nutrients and contaminants in suspended sediment transported by the San Lorenzo River, Santa Cruz.

Location Description - Proposed:

Approximately 0.5–2 km offshore from the mouth of the San Lorenzo River at 5, 10, and 20 meter isobaths.

Coordinates:

See map

Latest Event:

08/07/2008 Permit issued

MBNMS-2008-016 - Active

Effective Date: 09/01/2008 **Expiration Date:** 05/30/2009

Project Title: Wading through muddy waters: the policy, microbiology, and hydrodynamics of estuarine restoration

Applicant Name: Dr. Chris Francis

Affiliation: Stanford University

Project Summary:

Elkhorn Slough, a National Estuarine Research Reserve (ESNERR), is losing valuable salt marsh habitat via erosive tidal currents and altered hydrologic conditions caused by anthropogenic activities. The Elkhorn Slough Tidal Wetland Project has proposed the installation of water control structures within the estuary as one possible method of reducing erosive current velocities, and thus salt marsh

loss. What is unclear, however, is the effect that the subsequent increase in water residence times, concomitant with a reduction in velocity, will have on ecosystem health. Elkhorn Slough receives agricultural runoff with extremely high nitrate (NO3 -) and ammonium (NH4 +) concentrations derived from fertilizer in its predominantly agricultural watershed. At present, the slough appears to act as a nitrogen sink, as much of this inorganic nitrogen is apparently lost via nitrification/denitrification, coupled microbial processes that take place in the sediments throughout the salt marsh. It app

Location Description - Proposed:

The main channel of Elkhorn Slough.

The proposed study is located in the Elkhorn Slough State Marine Reserve.

Coordinates:

36.8194° N, 121.7457° W

Latest Event:
08/21/2008 Permit issued

MBNMS-2008-010

Effective Date: **Expiration Date:**

Project Title: BAE Systems Remote Sensing Data Collection Flight

Applicant Name: Mr. Ronald Ho

Affiliation: BAE Systems

Project Summary:

BAE Systems is trying to solve the mine detection problem in the littoral region for the US Navy, and, more specifically in this case, buried mines in the beach zone. The shoreline at Marina State Beach offers a large sandy beach environment at the ocean's edge to accommodate a target zone with available airspace to test the SAGPR system in flight.

While it is known that SAGPR can detect objects buried in dry soil, and in freshwater-moistened soil, it is unknown how effective SAGPR may be versus objects buried in wet salty sand (SAGPR is know to be ineffective versus objects submerged in pure seawater.) The goal of this task is to fly a SAPGR system over a prepared field containing mine surrogates buried in sand moistened with saltwater.

Radar data collected during this test will be analyzed to characterize the performance of the SAPGR in detecting surface mines and buried mines in we (with salt water) beach sand.

Location Description - Proposed:

The proposed test range is located along the shoreline at the north end of Marina State Beach south of the wastewater treatment plant and outside of any overflight restriction zones.

Coordinates:

Latest Event:
09/24/2008 Application abandoned

MBNMS-2008-003

Effective Date: tbd **Expiration Date:**

Project Title: Caltrans Vicente Creek / Gamboa Point Retaining Wall project

Applicant Name: Mr. Richard Krumholz

Affiliation:

Project Summary:

Caltrans proposes to stabilize the failing slope between Vicente Creek and Gamboa Point from post miles 26.1 through 26.3 on Highway 1, approximately 3 miles north of the town of Lucia on the Big Sur Coast in Monterey County. The project area is ans active landslide that causes disruption of traffic flow, especially during the winter months when rains increase the movement of unstable slopes. Currently maintenance crews are patching this portion of the roadway approximately two times per week. The project area has been designated as an Emergency Permanent Restoration in response to rapid and continual road failure due to the federal declared disaster event in 2006.

Caltrans is proposing to construct a 194-foot long soldier-pile tieback retaining wall along the outside shoulder of the southbound lanes using embedded steel piles with horizontal timber lagging. At it's tallest point the wall face will be 40-feet high. Piles will be encased in Portland cement and will be aesthetic

Location Description - Proposed:

Coordinates:

Latest Event:
12/21/2007 Additional information requested

MBNMS-2006-032

Effective Date: **Expiration Date:**

Project Title: Cambria Community Services District (CCSD) Desalination Project; Proposed Geotechnical Investigation Activities

Applicant Name: Mr. Robert Gresens

Affiliation: Cabria Community Services District

Project Summary:

The CCSD is proposing to conduct geotechnical and hydrogeological activities within the MBNMS at San Simeon State Beach as it relates to a potential future desalination facility.

An USACE EA will be prepared for this project.

Location Description - Proposed:

San Simeon State Park Beach

Coordinates:

Latest Event:

12/12/2007 Application denied by other agency

MBNMS-2006-008

Effective Date: tbd **Expiration Date:**

Project Title: Sink a Wreck Project

Applicant Name: Dr. Harry Wong

Affiliation: Chiropractor

Project Summary:

The proponents of this project are evaluating 5-10 sites for the sinking of a decomissioned US Navy ship (approximately 300+ feet in length) within the MBNMS. Their ideal location would allow for a 5-10 minute boat ride, and would be within recreational diving depth.

additional information required....

Location Description - Proposed:

tbd

Coordinates:

Latest Event:

02/23/2006 Additional information requested

MBNMS-2006-005

Effective Date: **Expiration Date:**

Project Title: Duke Energy Moss Landing Power Plant NPDES Permit

additional information needed

Applicant Name: RWQCB

Affiliation: Regional Water Quality Control Board

Project Summary:

Ocean discharge from the power plant. Th Moss Landing Power Plant NPDES permit has been on Administrative Extension since October 2005. Water Board staff plans to propose a renewed NPDES for the facility in 2007, after the federal court issues its decision regarding litigation over Clean Water Act Section 316(b) regulations.

Also the existing permit for the MLPP is still in litigation due to a lawsuit by Voices of the Wetlands. A renewed MLPP permit will not be enacted until the courts resolve these issues.

Location Description - Proposed:

Moss Landing Power Plant
Ocean Outfall

Coordinates:

Latest Event:

09/15/2006 Additional information requested